ELSEVIER

Brain Research Bulletin 63 (2004) 537–541

BRAIN
RESEARCH
BULLETIN

www.elsevier.com/locate/brainresbull

Contents of Volume 63

Articles

Perfusion- and BOLD-based fMRI in the study of a human pathological model for task-related flow reductions.
Mangia, S., F. Di Salle, G. Garreffa, F. Esposito, F. Giove, S. Cirillo, T. Scarabino, R. Morrone, and B. Maraviglia 1

Distinct regional distributions of NK1 and NK3 neurokinin receptor immunoreactivity in rat brainstem gustatory centers.
Harrison, T.A., D.B. Hoover, and M.S. King 7

The evolution of dysgraphia in Alzheimer's disease.
Forbes, K.E., M.F. Shanks, and A. Venneri 19

Altered localization of choline transporter sites in the mouse hippocampus after prenatal heroin exposure.
Vatury, O., J. Barg, T.A. Slotkin, and J. Yanai 25

Differential messenger RNA expression of complexins in mouse brain.
Freeman, W., and A.J. Morton 33

Regional and progressive changes in brain expression of complexin II in a mouse transgenic for the Huntington's Disease mutation.
Freeman, W., and A.J. Morton 45

Gene expression of OGFr in the developing and adult rat brain and cerebellum.
Zagon, I.S., and P.J. McLaughlin 57

Temporal and regional expression of Fos-related proteins in response to ischemic injury.
Butler, T.L., and K.R. Pennypacker 65

Effect of central administration of carnosine and its constituents on behaviors in chicks.
Tomonaga, S., T. Tachibana, T. Takagi, E.-S. Saito, R. Zhang, D.M. Denbow, and M. Furuse 75

Letter to the Editor

Rapid decline in motor symptoms in HD neural transplant patients prior to surgery.
Lazic, S.E., and R.A. Barker 83

Articles

NK-3 receptor activation depolarizes and induces an after-depolarization in pyramidal neurons in gerbil cingulate cortex.
Rekling, J.C. 85

$GABA_C$ receptor mediated inhibition in acutely isolated neurons of the rat dorsal lateral geniculate nucleus.
Schlicker, K., M. Boller, and M. Schmidt 91

Attenuation of mechanical but not thermal hyperalgesia by electroacupuncture with the involvement of opioids in rat model of chronic inflammatory pain.
Huang, C., Z.-P. Hu, H. Long, Y.-S. Shi, J.-S. Han, and Y. Wan 99

doi:10.1016/S0361-9230(04)00166-2

Intracerebral cytokine profiles in adult rats grafted with neural tissue of different immunological disparity.
Mirza, B., H. Krook, P. Andersson, L.C. Larsson, O. Korsgren, and H. Widner 105

Primary structure of guinea pig preprodynorphin and preproenkephalin mRNAs: multiple transcription initiation sites for preprodynorphin.
LaForge, K.S., F. Nyberg, and M.J. Kreek 119

NMDA dilates pial arteries by K_{ATP} and K_{ca} channel activation.
Philip, S., and W.M. Armstead 127

Metallothionein isoforms (I + II and III) and interleukin-6 in the hippocampus of old rats: may their concomitant increments lead to neurodegeneration?
Mocchegiani, E., R. Giacconi, P. Fattoretti, T. Casoli, C. Cipriano, E. Muti, M. Malavolta, G. DiStefano, and C. Bertoni-Freddari 133

Inhibitory effect of iodophenpropit, a selective histamine H_3 antagonist, on amygdaloid kindled seizures.
Harada, C., Y. Fujii, T. Hirai, K. Shinomiya, and C. Kamei 143

Resting state brain glucose metabolism is not reduced in normotensive healthy men during aging, after correction for brain atrophy.
Ibáñez, V., P. Pietrini, M.L. Furey, G.E. Alexander, P. Millet, A.L.W. Bokde, D. Teichberg, M.B. Schapiro, B. Horwitz, and S.I. Rapoport 147

Neuronal density, size and shape in the human anterior cingulate cortex: a comparison of Nissl and NeuN staining.
Gittins, R., and P.J. Harrison 155

Attentional demand for regulating postural sway: the effect of expertise in gymnastics.
Vuillerme, N., and V. Nougier 161

Kainic acid does not affect CA3 hippocampal region pyramidal cells in hypothyroid rats.
Alva-Sánchez, C., R. Ortiz-Butrón, and J. Pacheco-Rosado 167

Review

Quantitative models of Pavlovian conditioning.
Vogel, E.H., M.E. Castro, and M.A. Saavedra 173

Articles

Autonomic and emotional responses to open and hidden stimulations of the human subthalamic region.
Benedetti, F., L. Colloca, M. Lanotte, B. Bergamasco, E. Torre, and L. Lopiano 203

Does hypnotizability modulate the stress-related endothelial dysfunction?
Jambrik, Z., E.L. Santarcangelo, B. Ghelarducci, E. Picano, and L. Sebastiani 213

Place learning and object recognition by rats subjected to transection of the fimbria-fornix and/or ablation of the prefrontal cortex.
Mogensen, J., K.T. Lauritsen, S. Elvertorp, A. Hasman, A. Moustgaard, and G. Wörtwein 217

Mirtazapine increases dopamine release in prefrontal cortex by 5-HT_{1A} receptor activation.
Nakayama, K., T. Sakurai, and H. Katsu 237

Involvement of serotonin $5HT_1$ and $5HT_2$ receptors and nitric oxide synthase in the medial preoptic area on gonadotropin secretion.
Gouveia, E.M., and C.R. Franci 243

Release of amino acids by zinc in the hippocampus.
Takeda, A., A. Minami, Y. Seki, S. Nakajima, and N. Oku 253

Articles

The content of dopamine, serotonin, and their metabolites in the neural circuit that mediates maternal behavior in juvenile and adult rats.
Olazábal, D.E., E. Abercrombie, J.S. Rosenblatt, and J.I. Morrell 259

Impaired fear processing in right mesial temporal sclerosis: a fMRI study.
Benuzzi, F., S. Meletti, G. Zamboni, G. Calandra-Buonaura, M. Serafini, F. Lui, P. Baraldi, G. Rubboli, C.A. Tassinari, and P. Nichelli 269

The effect of posterior hypothalamic injection of cholinergic agents on hippocampal formation theta in freely moving cat.
Bocian, R., and J. Konopacki 283

The role of D_1 and D_2 receptors in the cocaine conditioned place preference of male and female rats.
Nazarian, A., S.J. Russo, E.D. Festa, M. Kraish, and V. Quinones-Jenab 295

Male chemosignals inhibit the neural responses of male mice to female chemosignals.
Reyes, R., J. Mendoza, J. Ballesteros, and C. Moffatt 301

Ginkgolide B preferentially blocks chloride channels formed by heteromeric glycine receptors in hippocampal pyramidal neurons of rat.
Kondratskaya, E.L., A.I. Fisyunov, S.S. Chatterjee, and O.A. Krishtal 309

Prolactin releasing peptides modulate background firing rate and milk-ejection related burst of oxytocin cells in the supraoptic nucleus.
Honda, K., K. Narita, T. Murata, and T. Higuchi 315

Pursuit of roles for metabotropic glutamate receptors in the anteroventral third ventricular region in regulating vasopressin secretion and cardiovascular function in conscious rats.
Yamaguchi, K., and K. Watanabe 321

Role of the locus coeruleus in the prolactin secretion of female rats.
Poletini, M.O., R.E. Szawka, C.R. Franci, and J.A. Anselmo-Franci 331

Prenatal heroin exposure alters cholinergic receptor stimulated activation of the PKCβII and PKCγ isoforms.
Yaniv, S.P., Z. Naor, and J. Yanai 339

Special Issue

Sleep Science 50 Years after the Discovery of REM Sleep: Contributions of the Italian Association of Sleep Medicine

Sleep science 50 years after the discovery of REM sleep: contributions of the Italian Association of Sleep Medicine.
Guazzelli, M., E. Bonanni, and F. Cirignotta 351

Evidence for a fourth locus for autosomal dominant nocturnal frontal lobe epilepsy.
Combi, R., L. Dalprà, M. Malcovati, A. Oldani, M.L. Tenchini, and L. Ferini-Strambi 353

Mental activity after early afternoon nap awakenings in healthy subjects.
Palagini, L., A. Gemignani, I. Feinberg, M. Guazzelli, and I.G. Campbell 361

Recurrent nightmares and disorders of arousal in temporal lobe epilepsy.
Silvestri, R., and E. Bromfield 369

Is insomnia a neurophysiological disorder? The role of sleep EEG microstructure.
Parrino, L., F. Ferrillo, A. Smerieri, M.C. Spaggiari, V. Palomba, M. Rossi, and M.G. Terzano 377

Insomnia, quality of life and psychopathological features.
Specchio, L.M., M.P. Prudenzano, M. de Tommaso, M. Massimo, F. Cuonzo, R. Ambrosio, and F. Puca 385

Body movements during night sleep in healthy elderly subjects and their relationships with sleep stages.
Gori, S., G. Ficca, F. Giganti, I.D. Nasso, L. Murri, and P. Salzarulo 393

Quantitative analysis of sleep EEG microstructure in the time–frequency domain.
De Carli, F., L. Nobili, M. Beelke, T. Watanabe, A. Smerieri, L. Parrino, M.G. Terzano, and F. Ferrillo 399

Dream experience during REM and NREM sleep of patients with complex partial seizures.
Cipolli, C., E. Bonanni, M. Maestri, M. Mazzetti, and L. Murri 407

Validity of a Short Insomnia Questionnaire: the SDQ.
Violani, C., A. Devoto, F. Lucidi, C. Lombardo, and P.M. Russo 415

A driving simulation task: correlations with Multiple Sleep Latency Test.
Pizza, F., S. Contardi, B. Mostacci, S. Mondini, and F. Cirignotta 423

Reliability of a driving simulation task for evaluation of sleepiness.
Contardi, S., F. Pizza, E. Sancisi, S. Mondini, and F. Cirignotta 427

Rapid eye movement density shows trends across REM periods but is uncorrelated with NREM delta in young and elderly human subjects.
Darchia, N., I.G. Campbell, L. Palagini, and I. Feinberg 433

Articles

Increased periodic arousal fluctuations during non-REM sleep are associated to superior memory.
Ferini-Strambi, L., P. Ortelli, V. Castronovo, and S. Cappa 439

Sex differences in face gender recognition in humans.
Cellerino, A., D. Borghetti, and F. Sartucci 443

Lesions of the dorsal noradrenergic bundle augment the renin response to blood loss but do not alter hypothalamic Fos expression.
Jaworski, R.L., and M.L. Blair 451

Axonal connections from posterior paralaminar thalamic neurons to basomedial amygdaloid projection neurons to the lateral entorhinal cortex in rats.
Linke, R., H. Faber-Zuschratter, T. Seidenbecher, and H.-C. Pape 461

Role of the cerebellum in implicit motor skill learning: a PET study.
Matsumura, M., N. Sadato, T. Kochiyama, S. Nakamura, E. Naito, K.-i. Matsunami, R. Kawashima, H. Fukuda, and Y. Yonekura 471

The effect of chronic lithium on arachidonic acid release and metabolism in rat brain does not involve secretory phospholipase A_2 or lipoxygenase/cytochrome P450 pathways.
Weerasinghe, G.R., S.I. Rapoport, and F. Bosetti 485

Taurine administration during lactation modifies hippocampal CA1 neurotransmission and behavioural programming in adult male mice.
Franconi, F., G. Diana, A. Fortuna, G. Galietta, G. Trombetta, G. Valentini, G. Seghieri, and A. Loizzo 491

Localization of G protein-coupled receptor kinases (GRKs) in the avian retina.
de Almeida Gomes, C.P., and A.L.M. Ventura 499

Effects of electroacupuncture on orphanin FQ immunoreactivity and preproorphanin FQ mRNA in nucleus of raphe magnus in the neuropathic pain rats.
Ma, F., H. Xie, Z.-Q. Dong, Y.-Q. Wang, and G.-C. Wu 509

Alterations in the central vasopressin and oxytocin axis after lesion of a brain osmotic sensory region.
Oliveira, G.R., C.R. Franci, G.V. Rodovalho, J.A.A. Franci, M. Morris, and M.J.A. Rocha 515

Effects of repeated restraint stress on hypothalamo-pituitary-adrenocortical function in vasopressin deficient Brattleboro rats.
Zelena, D., A. Földes, Z. Mergl, I. Barna, K.J. Kovács, and G.B. Makara 521

$GABA_B$ receptor activation in the suprachiasmatic nucleus of diurnal and nocturnal rodents.
Novak, C.M., J.C. Ehlen, K.L. Huhman, and H.E. Albers 531

Contents of Volume 63 537

Author Index 543

Subject Index 547